



THE HEART OF FRESHNESS

COMPACT SCREW COMPRESSORS

APPROVAL CERTIFICATES

SU-170-1

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GERMANISCHER LLOYD

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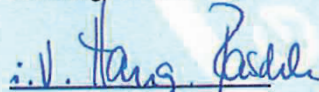
Approval Certificate

This is to certify, that the undernoted products have been approved in accordance with the relevant requirements of the GL Approval System.

Certificate No.	19 369 - 11 HH	
Company	Bitzer Kühlmaschinenbau GmbH Werk Rottenburg-Ergenzingen Mercedesstraße 24-28 72108 Rottenburg, GERMANY	
Product	Semi-Hermetic Compact Screw Compressor	
Type	CS.65	
Technical Data / Application	Application	Air Conditioning, Provision Cooling Cargo Refrigeration
	Refrigerant	R134a, R407C, R404A, R507A, R22
	M.A.W.P.	28 bar
	Casing Material	Spheroidal Graphite
	Screw Rotor Material	EN-GJS-600-3, EN-GJS-500-7, EN-GJS-400-3 (only female rotor)
	Performance- and technical data see manufacturers data sheet Compressors intended for essential services* are to be subjected to a performance test at the manufacturer's works under supervision of GL and are to be presented for final inspection.	
Approval Standard	I-1-2 Seagoing ships - Machinery installations; Edition 2010 I-1-10 Seagoing ships - Refrigerating Installations; Edition 2000	
Documents	Specification: 784_0010 Rev. 09; 784_0035 Rev. 05; 784_0036 Rev. 05; 784_0053 Rev. 02 Dwg No: 361106-020-7 Pressure Relief Valve	
Remarks	* Essential services: Cargo refrigerating installations and reliquefaction plants	
Valid until	2016-05-30	
File No.	XI.B.10	

Germanischer Lloyd

Hamburg, 2011-05-27



Hanspeter Raschle



Christian Kaemmer

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For application Cargo Refrigeration please contact BITZER before placing an order. An extended product documentation is required.
 For supplied compressors it is not possible to deliver the required extended product documentation subsequently.
 Additional costs for extended product documentation will be charged.

Approval Certificate

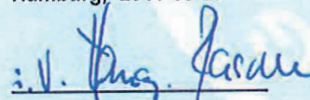


This is to certify, that the undernoted products have been approved in accordance with the relevant requirements of the GL Approval System.

Certificate No.	19 370 - 11 HH	
Company	Bitzer Kühlmaschinenbau GmbH Werk Rottenburg-Ergenzingen Mercedesstraße 24-28 72108 Rottenburg, GERMANY	
Product	Semi-Hermetic Compact Screw Compressor	
Type	CS.75	
Technical Data / Application	Application	Air Conditioning, Provision Cooling Cargo Refrigeration
	Refrigerant	R134a, R407C, R404A, R507A, R22
	M.A.W.P.	28 bar
	Casing Material	Spheroidal Graphite
	Screw Rotor Material	EN-GJS-600-3, EN-GJS-500-7, EN-GJS-400-3 (only female rotor)
	Performance- and technical data see manufacturers data sheet Compressors intended for essential services* are to be subjected to a performance test at the manufacturer's works under supervision of GL and are to be presented for final inspection.	
Approval Standard	I-1-2 Seagoing ships - Machinery installations; Edition 2010 I-1-10 Seagoing ships - Refrigerating Installations; Edition 2000	
Documents	Specification: 784_0010 Rev. 09; 784_0035 Rev. 05; 784_0036 Rev. 05; 784_0053 Rev. 02 Dwg No: 361106-020-7 Pressure Relief Valve	
Remarks	* Essential services: Cargo refrigerating installations and reliquefaction plants	
Valid until	2016-05-30	
File No.	XI.B.10	

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Hamburg, 2011-05-27



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For application Cargo Refrigeration please contact BITZER before placing an order. An extended product documentation is required.
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Approval Certificate



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Certificate No. 19 371 - 11 HH

Company Bitzer Kühlmaschinenbau GmbH
Werk Rottenburg-Ergenzingen
Mercedesstraße 24-28
72108 Rottenburg, GERMANY

Product Semi-Hermetic Compact Screw Compressor

Type CS.85

Technical Data / Application
Application Air Conditioning, Provision Cooling
Cargo Refrigeration
Refrigerant R134a, R407C, R404A, R507A, R22
M.A.W.P. 28 bar

Casing Material Spheroidal Graphite
Screw Rotor Material EN-GJS-600-3, EN-GJS-500-7,
EN-GJS-400-3 (only female rotor)

Performance- and technical data see manufacturers data sheet
Compressors intended for essential services* are to be subjected to a performance test at the manufacturer's works under supervision of GL and are to be presented for final inspection.

Approval Standard I-1-2 Seagoing ships - Machinery installations; Edition 2010
I-1-10 Seagoing ships - Refrigerating Installations; Edition 2000

Documents Specification: 784_0010 Rev. 09; 784_0035 Rev. 05; 784_0036 Rev. 05;
784_0053 Rev. 02
Dwg No: 361106-020-7 Pressure Relief Valve

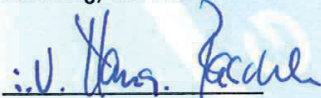
Remarks * Essential services: Cargo refrigerating installations and reliquefaction plants

Valid until 2016-05-30

File No. XI.B.10

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Certificate No. 19 288 - 11 HH

Company Bitzer Kühlmaschinenbau GmbH
Werk Rottenburg-Ergenzingen
Mercedesstraße 24-28
72108 Rottenburg, GERMANY

Product Semi-Hermetic Compact Screw Compressor

Type CS.95

Technical Data / Application	Application	Air Conditioning, Provision Cooling Cargo Refrigeration
	Refrigerant	R134a, R407C, R404A, R507A, R22
	M.A.W.P.	28 bar

Casing Material	Spheroidal Graphite
Screw Rotor Material	EN-GJS-600-3, EN-GJS-500-7, EN-GJS-400-3 (only female rotor)

Performance- and technical data see manufacturers data sheet
Compressors intended for essential services* are to be subjected to a performance test at the manufacturer's works under supervision of GL and are to be presented for final inspection.

Approval Standard I-1-2 Seagoing ships - Machinery installations; Edition 2010
I-1-10 Seagoing ships - Refrigerating Installations; Edition 2000

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784_0053 Rev. 02
Dwg No: 361106-020-7 Pressure Relief Valve

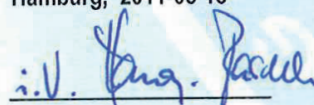
Remarks * Essential services: Cargo refrigerating installations and reliquefaction plants

Valid until 2016-05-30

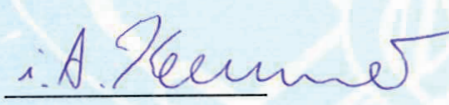
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Hamburg, 2011-05-18



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